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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 3	MAR 16	CASREACT coverage extended
NEWS 4	MAR 20	MARPAT now updated daily
NEWS 5	MAR 22	LWPI reloaded
NEWS 6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 10	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 12	MAY 01	New CAS web site launched
NEWS 13	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 17	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 18	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20	JUN 29	STN Viewer now available
NEWS 21	JUN 29	STN Express, Version 8.2, now available
NEWS 22	JUL 02	LEMBASE coverage updated
NEWS 23	JUL 02	LMEDLINE coverage updated
NEWS 24	JUL 02	SCISEARCH enhanced with complete author names
NEWS 25	JUL 02	CHEMCATS accession numbers revised
NEWS 26	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 27	JUL 16	CAplus enhanced with French and German abstracts

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:26:46 ON 17 JUL 2007

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:26:54 ON 17 JUL 2007
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STRUCTURE FILE UPDATES: 16 JUL 2007 HIGHEST RN 942468-13-5
DICTIONARY FILE UPDATES: 16 JUL 2007 HIGHEST RN 942468-13-5

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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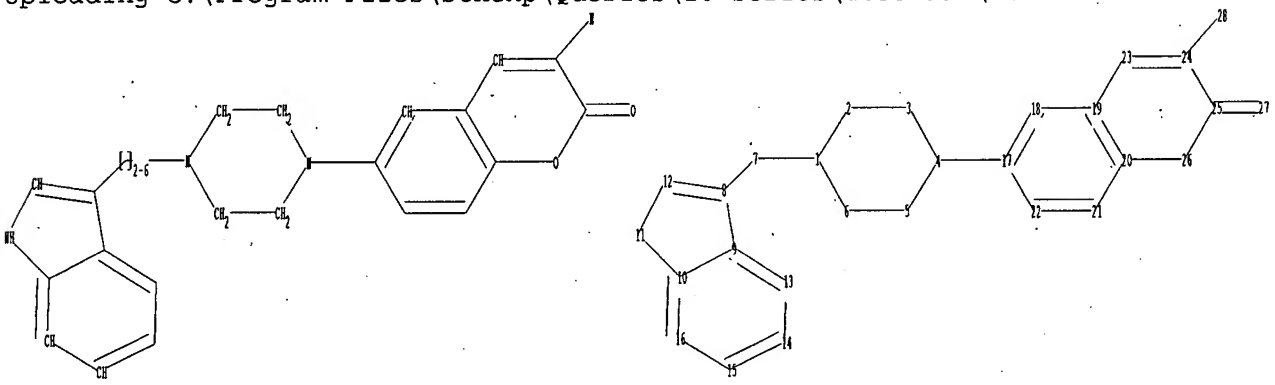

chain nodes :
7 27 28
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26
chain bonds :
1-7 4-17 7-8 24-28 25-27
ring bonds :

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1-2  1-6  2-3  3-4  4-5  5-6  8-9  8-12  9-10  9-13  10-11  10-16  11-12  13-14
14-15  15-16  17-18  17-22  18-19  19-20  19-23  20-21  20-26  21-22  23-24  24-25
25-26
exact/norm bonds :
1-7  4-17  10-11  11-12  24-28  25-27
exact bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-8  8-9  8-12  19-23  20-26  23-24  24-25  25-26
normalized bonds :
9-10  9-13  10-16  13-14  14-15  15-16  17-18  17-22  18-19  19-20  20-21  21-22
isolated ring systems :
containing 1 : 8 : 17 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom
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L1      STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
L1                STR
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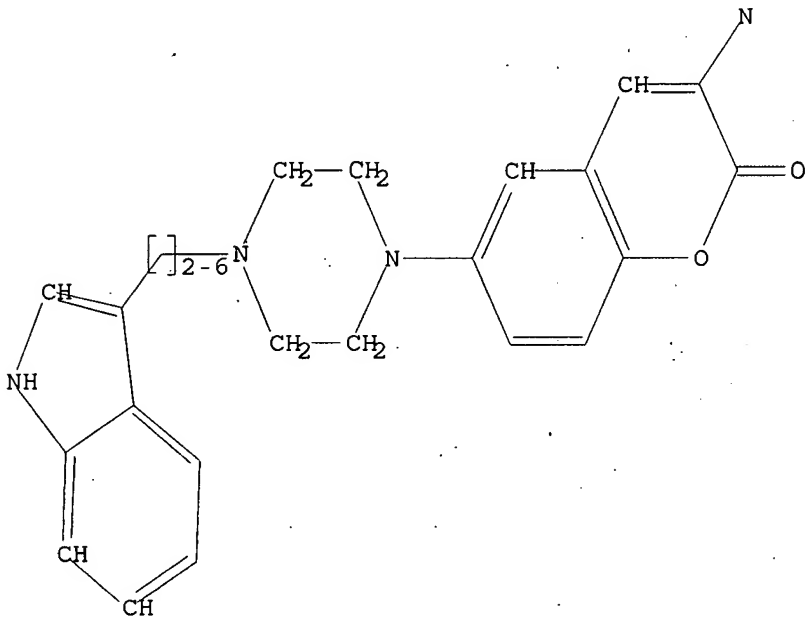


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Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 16:27:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -         0 TO ITERATE

100.0% PROCESSED         0 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE  **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO         0
PROJECTED ANSWERS:                0 TO         0
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L2             0 SEA SSS SAM L1

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FULL SCREEN SEARCH COMPLETED -       45 TO ITERATE

100.0% PROCESSED       45 ITERATIONS                                 8 ANSWERS
SEARCH TIME: 00.00.01

L3             8 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.10     172.31

FILE 'CAPLUS' ENTERED AT 16:27:23 ON 17 JUL 2007
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FILE COVERS 1907 - 17 Jul 2007  VOL 147 ISS 4
FILE LAST UPDATED: 16 Jul 2007  (20070716/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4             2 L3

=> d l4 1-2 ibib abs hitstr
```

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:841760 CAPLUS
DOCUMENT NUMBER: 141:350194
TITLE: Preparation of chromenonindole derivatives as 5-HTx agonistics and/or antagonistics
INVENTOR(S): Schiemann, Kai; Boettcher, Henning; Heinrich, Timo; Hoelzemann, Guenter; Van Amsterdam, Christoph; Bartoszyk, Gerd; Leibrock, Jochim; Seyfried, Christoph
PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10315285	A1	20041014	DE 2003-10315285	20030404
AU 2004226279	A1	20041014	AU 2004-226279	20040308
CA 2520892	A1	20041014	CA 2004-2520892	20040308
WO 2004087692	A1	20041014	WO 2004-EP2351	20040308
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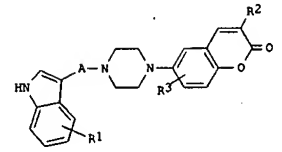
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1611126	A1	20060104	EP 2004-718300	20040308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008467	A	20060404	BR 2004-8467	20040308
CN 1768056	A	20060503	CN 2004-80008571	20040308
JP 2006522034	T	20060928	JP 2006-504582	20040308
US 2006258680	A1	20061116	US 2005-551997	20051004
PRIORITY APPLN. INFO.:			DE 2003-10315285 A	20030404
			WO 2004-EP2351 W	20040308

OTHER SOURCE(S): CASREACT 141:350194; MARPAT 141:350194
GI



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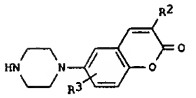

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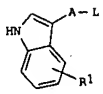


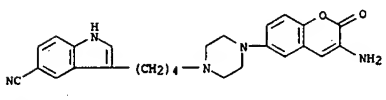
III

AB Chromenone-indole derivs. I [R1 = H, OH, CN, halogen, CONHR, OB, CO2B, CF3, NO2, NR2, NRCOR, NRCO2R, NRCONR2; R2 = NR2, NRCOR, NRCO2R, NRCONR2, NO2, NRSO2R, NRCSB, NRCSNR2; R3 = H, OH, CN, halogen, CONHR, OB, CO2B, CF3, NO2, NR2, NRCOR, NRCO2R, NRCONR2; R = H, B, Het, Ar; A = (un)branched, unsatd. C2-6-alkyl; B = (un)branched C1-6-alkyl], as well as of them pharmaceutical usable prodrugs, derivs., solvates, stereoisomers and salts show special effects on the central nervous system, above all 5-HT reabsorption inhibiting and 5-HTx agonistic and/or antagonistic effects. The procedure for the preparation of I is characterized by: alkylation of piperazine II by indole derivative III [L = Cl, Br, I, OH]. Thus, EMD 391987 [I·HCl; A = (CH2)4, R1 = CN-5, R2 = NHAc, R3 = H], was prepared from piperazine II [R2 = NHAc, R3 = H] via N-alkylation with indole III [A = (CH2)4, R1 = CN-5, L = I] in N-methylpyrrolidone containing EtN(CHMe2)2, followed by treatment with HCl. They are characterized by a particularly high bioavailability and a particularly high inhibition of the 5 HT reabsorption (see graphs).

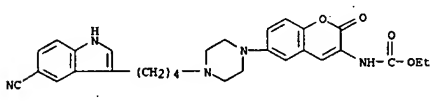
IT 752258-06-3P, EMD 480246 752258-08-5P
752258-10-9P, EMD 391987 752258-11-0P, EMD 487535
773878-58-3P 774242-09-0P, EMD 480247
774242-10-3P, EMD 480248
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of chromenonindole derivs. as 5-HTx agonistics and/or antagonistics)

RN 752258-06-3 CAPLUS
CN 1H-Indole-5-carbonitrile, 3-[4-[4-(3-amino-2-oxo-2H-1-benzopyran-6-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

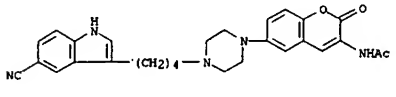


RN 752258-08-5 CAPLUS
CN Carbamic acid, [6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



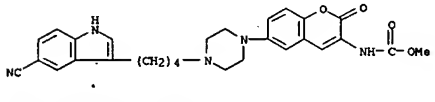
● HCl

RN 752258-10-9 CAPLUS
CN Acetamide, N-[6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



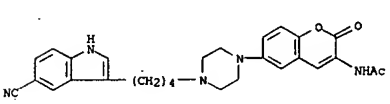
● HCl

RN 752258-11-0 CAPLUS
CN Carbamic acid, [6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, methyl ester (9CI) (CA INDEX NAME)

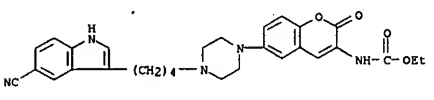


RN 773878-58-3 CAPLUS
CN Acetamide, N-[6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]- (9CI) (CA INDEX NAME)

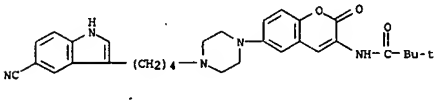
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 774242-09-0 CAPLUS
CN Carbamic acid, [6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 774242-10-3 CAPLUS
CN Propanamide, N-[6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



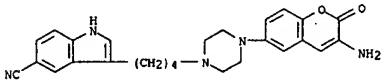
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:710478 CAPLUS
DOCUMENT NUMBER: 141:235678
TITLE: Dual 5-HT1A agonists and 5-HT re-uptake inhibitors by combination of indole-butyl-amine and chromenonyl-piperazine structural elements in a single molecular entity
AUTHOR(S): Heinrich, Timo; Boettcher, Henning; Schiemann, Kai; Hoelzemann, Guenter; Schwarz, Michael; Bartoszyk, Gerd D.; van Amsterdam, Christoph; Greiner, Hartmut E.; Seyfried, Christoph A.
CORPORATE SOURCE: APreclinical Pharmaceutical Research, Merck KGaA, Darmstadt, 64293, Germany
SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(18), 4843-4852
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:235678

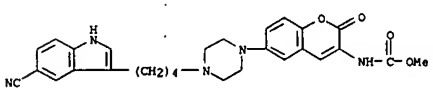
AB The dual serotonin (5-HT) re-uptake inhibitor and 5-HT1A receptor agonist vilazodone was found to increase central serotonin levels in rat brain. In the course of structural modifications of vilazodone 3-{4-[4-(2-oxo-2H-1-benzopyran-6-yl)-1-piperazinyl]-butyl}-1H-indole-5-carbonitrile and its fluorine analog 6-{4-[4-(5-fluor-3-indolyl)-butyl]-1-piperazinyl}-2H-1-benzopyran-2-one have been identified. These unsubstituted chromenones are equally potent at the 5-HT1A receptor and 5-HT transporter. The implementation of nitrogen functionalities in position 3 of the chromenones resulted in compds. acting as agonists at the 5-HT1A receptor and as 5-HT re-uptake inhibitors like vilazodone. Ex vivo 5-HT re-uptake inhibition and in vitro 5-HT agonism were determined in the PCA- and GTPγS-assay, resp. The potential of these chromenones to increase central 5-HT levels was measured in microdialysis studies and especially the derivs. 3-{4-[4-(3-amino-2-oxo-2H-chromen-6-yl)-piperazin-1-yl]-butyl}-1H-indole-5-carbonitrile , Et (6-[4-[4-(5-cyano-1H-indol-3-yl)-butyl]-piperazin-1-yl}-2-oxo-2H-chromen-3-yl)-carbamate and N-(6-{4-[4-(5-cyano-1H-indol-3-yl)-butyl]-piperazin-1-yl}-2-oxo-2H-chromen-3-yl)-acetamide give rise to rapid development of increased serotonin levels in rat brain cortex, lasting longer than 3 h.

IT 752258-06-3P 752258-07-4P 752258-08-5P
752258-10-9P 752258-11-0P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(dual 5-HT1A agonists and 5-HT re-uptake inhibitors by combination of indole-Bu-amine and chromenonyl-piperazine structural elements in a single mol. entity)

RN 752258-06-3 CAPLUS
CN 1H-Indole-5-carbonitrile, 3-[4-[4-(3-amino-2-oxo-2H-1-benzopyran-6-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



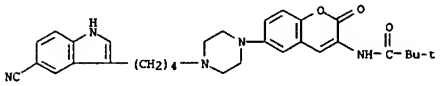
L4 ANSWER 2 OF 2. CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

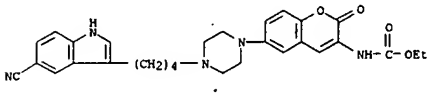
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 752258-07-4 CAPLUS
CN Propanamide, N-[6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-2,2-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



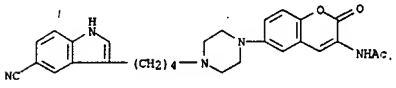
● HCl

RN 752258-08-5 CAPLUS
CN Carbamic acid, [6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 752258-10-9 CAPLUS
CN Acetamide, N-[6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 752258-11-0 CAPLUS
CN Carbamic acid, [6-[4-[4-(5-cyano-1H-indol-3-yl)butyl]-1-piperazinyl]-2-oxo-2H-1-benzopyran-3-yl]-, methyl ester (9CI) (CA INDEX NAME)

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=> d his

     (FILE 'HOME' ENTERED AT 16:26:46 ON 17 JUL 2007)

     FILE 'REGISTRY' ENTERED AT 16:26:54 ON 17 JUL 2007
L1              STRUCTURE UPLOADED
L2            0 S L1
L3            8 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 16:27:23 ON 17 JUL 2007
L4            2 S L3

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    13.36     185.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -1.56      -1.56

STN INTERNATIONAL LOGOFF AT 16:30:59 ON 17 JUL 2007
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	524	514/254.09.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:21
L3	1	chromenoneindole	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/17 17:22
L4	1	l2 l3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/17 17:23
L5	111	l2 dopamine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/17 17:23
L6	107	l2 dopamine receptor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/17 17:24
L7	54	l2 serotonin uptake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/17 17:24
S2	2	"7084143".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 11:39

EAST Search History

S3	2	"4376123".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:21